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CLAIMS

We claim:

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- 1. A system for cleaning pressurized containers containing chemicals comprising:
- a container having a quantity of chemicals therein wherein the container has a plurality of valves for attaching a plurality of pipes thereto;
- a nitrogen gas storage tank wherein the nitrogen gas storage tank is attachable to a first valve on the container; and
 - a tank containing a neutralizing material connected to the container via a pipe.
- 2. The system of claim 1 further comprising a vacuum pump disposed between the container and the tank for pumping the chemicals from the container to the tank.
- 3. The system of claim 1 further comprising a heat exchange means connected to the nitrogen gas storage tank via a first pipe wherein nitrogen gas within the first pipe is heated by the heat exchange means.
- 4. The system of claim 1 wherein the plurality of valves regulates a flow of nitrogen gas from the nitrogen gas storage tank and the container.
 - 5. The system of claim 1 wherein the container is a railcar.
 - 6. The system of claim 1 wherein the container is disposed on a vehicle.
 - 7. The system of claim 1 further comprising:
 - a heating means connected to the heat exchange means for feeding a fluid to the heat exchange means for heating nitrogen gas that flows through the heat exchange means.
 - 8. The system of claim 3 further comprising:
 - a nitrogen vaporizer attached to a second section of the first pipe for vaporizing the nitrogen from the nitrogen storage tank.
 - 9. The system of claim 1 further comprising:
 - a first pipe within the container and attached to a valve wherein the first pipe within the container extends to a bottom of the container.
 - 10. The system of claim 1 further comprising:
 - a pipe within the container and attached to a valve and extending partially within the container.

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- 11. The system of claim 1 further comprising:
- a controller interconnected with the plurality of valves for controlling the opening and closing of the valves.
- 12. The system of claim 2 further comprising:
- a controller interconnected with the plurality of valves and the vacuum pump for controlling the opening and closing of the valves and for controlling the operation of the vacuum pump.
- 13. The system of claim 12 wherein the controller controls the opening and closing of the plurality of valves in synchronization with the vacuum pump.
 - 14. The system of claim 1 further comprising:
 - a gauge attached to the container for measuring the internal pressure of the container.
- 15. The system of claim 1 wherein the tank comprises a quantity of a material selected from the group consisting of sodium hydroxide, potassium hydroxide, sodium carbonate, calcium hydroxide, sodium sulfite, sodium thiosulfite, ferrous chloride and solid bed absorbents.
- 16. The system of claim 1 wherein the tank neutralizes chlorine gas and sulfur dioxide gas.
- 17. The system of claim 2 wherein a first pipe extends from the container to the vacuum pump and further wherein a second pipe extends from the vacuum pump to the tank containing the caustic material.
 - 18. A system for cleaning pressurized containers containing chemicals comprising:
 - a container having a quantity of chemicals therein wherein the container has a plurality of valves for attaching a plurality of pipes thereto;
 - an intake means for blowing air into the container via a first pipe;
 - a tank containing a neutralizing material connected to the container via a pipe; and
 - 19. The system of claims 18 wherein the intake means comprises a fan.
- 20. The system of claim 18 wherein the air is regulated into the container via a first valve wherein the first valve is connected to a controlling means.

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- 21. The system of claim 18 further comprising:
- a pressure gauge attached to one of the plurality of valves for measuring the pressure within the tank.
- 22. The system of claim 18 further comprising:
 a control panel having a plurality of switches for controlling the system.
- 23. The system of claim 18 wherein the tank comprises a quantity of a material selected from the group consisting of sodium hydroxide, potassium hydroxide, sodium carbonate, calcium hydroxide, sodium sulfite, sodium thiosulfite, ferrous chloride and solid bed absorbents.
- 24. The system of claim 18 wherein the tank neutralizes chlorine gas and sulfur dioxide gas.
 - 25. The system of claim 18 further comprising a vacuum pump disposed between the container and the tank for pumping the chemicals from the container to the tank.
 - 26. The system of claim 25 wherein a first pipe extends from the container to the vacuum pump and further wherein a second pipe extends from the vacuum pump to the tank containing the neutralizing material.
 - 27. The system of claim 18 further comprising a first pipe attached to the intake means and further wherein a heating means is attached to the first pipe for heating the air flowing through the first pipe.
 - 28. The system of claim 18 further comprising a first pipe attached to the intake means and further wherein a drying means is attached to the first pipe for drying the air flowing through the first pipe.